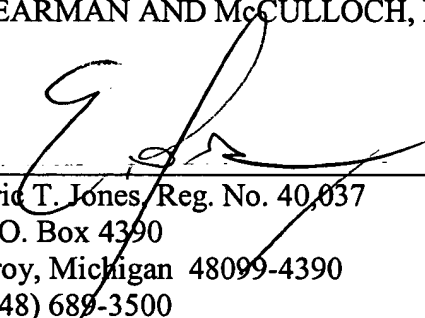


105
data therefrom, wherein said station is a metal-detection station, said emitting means serves to emit electromagnetic field, and said receiving means comprises a multiplicity of electromagnetic field sensing devices arranged to be distributed across said stream.

Respectfully submitted,

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Date: November 14, 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of
Ulrichsen et al

Serial No. 09/541,718

Docket No. 0279.0340.003

Filed: April 30, 2000

Group Art Unit: 3653

For: DETERMINATION OF CHARACTERISTICS OF MATERIAL

MARKED UP COPY

Commissioner for Patents
Washington, D.C. 20231
ATTN: T. Nguyen

Sir:

The following is a marked up copy of the accompanying Supplemental
Amendment:

160 (twice amended). Apparatus according to claim [175] 173, wherein the first and second emitting means are so arranged as to extend across both of the first and second streams.

162 (twice amended). Apparatus according to claim [175] 173, wherein said receiving device is so arranged as to extend across both of the first and second streams.

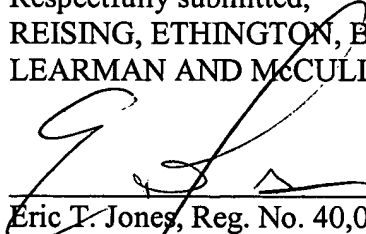
166 (twice amended). Apparatus according to claim [175] 173, wherein said receiving device comprises a multiplicity of metal-sensing means arranged so as to be discretely distributed across the first and second streams and serving to detect metal portions constituting the constituent(s) of at least one of the first and second streams.

172 (thrice amended). A method of automatically inspecting matter for varying composition, comprising passing through a detection station a first stream of matter,

emitting detection medium to be active at a transverse section of said stream at said detection station, wherein said medium is varied by variations in the composition of said matter at said transverse section, obtaining from said detection station first detection data as to a constituent of said first stream, passing a second stream of matter through said detection station simultaneously with said first stream, emitting detection medium to be active at a transverse section of said second stream at said detection station, wherein the latter medium is varied by variations in the composition of matter of said second stream at the latter transverse section, and obtaining from said detection station second detection data as to a constituent of said second stream, and wherein the varied medium from both of the first and second streams is received by a receiving device common to both streams.

174 (thrice amended). [A method of] Apparatus for automatically inspecting a stream of matter for varying composition, comprising a detection station through which said stream passes, emitting means serving to emit a detection medium to be active at a transverse section of said stream at said station, receiving means at said station arranged to extend physically across substantially the width of said stream serving to receive detection medium varied by variations in the composition of said matter at said section, detecting means arranged to be in communication with said receiving means and serving to generate detection data [independent] in dependence upon the variations in said medium, and data-obtaining means connected to said detecting means and serving to obtain said detection data therefrom, wherein said station is a metal-detection station, said emitting means serves to emit electromagnetic field, and said receiving means comprises a multiplicity of electromagnetic field sensing devices arranged to be distributed across said stream.

Respectfully submitted,
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